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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,848	09/22/2003	Edward F. Ikeguchi	MSI -203-US	1385
	7590 02/20/200 & JAWORSKI, LLP	EXAMINER		
666 FIFTH AV	E		RAJ, RAJIV J	
NEW YORK, NY 10103-3198			ART UNIT	PAPER NUMBER
			4143	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Occurrence	10/667,848	IKEGUCHI ET AL.					
Office Action Summary	Examiner	Art Unit					
	RAJIV J. RAJ	4143					
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 22.	September 2003						
	· · · · · · · · · · · · · · · · · · ·						
,	,—						
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application	1) X Claim(s) 1-24 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-24</u> is/are rejected.	· ·· 						
7) Claim(s) is/are objected to.							
• • • • • • • • • • • • • • • • • • • •	B) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>22 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.03(a).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
a) All b) Some * c) None of:	2) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
·—	,_ ,_ ,_						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application							
Paper No(s)/Mail Date <u>24 May 2007 and 20 September 2006</u> . 6) Other:							



Application No.

Art Unit: 4143

DETAILED ACTION

Status of Claims

1. This action is in reply to the application filed on 22 September 2003.

2. Claims 1-24 are currently pending and have been examined.

Information Disclosure Statement

3. The Information Disclosure Statements filed 20 September 2006 and 24 May 2007 have been considered. Initialed copies of the Form 1449 are enclosed herewith.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bardy (US 2002/0099302) (hereinafter Bardy) in view of Pence et al. (US 5978751) (hereinafter Pence).

Claim 1

Bardy as shown, discloses the following limitations:

 accessing a trial database containing trial data of subjects in a clinical trial; performing a statistical analysis on the accessed trial database; (see at least Bardy [0009] "Select stored and derived measures are analyzed and changes in patient condition are logged. The logged changes are compared to quantified indicator thresholds to detect findings of respiratory distress or reduced exercise capacity indicative of the two principal cardiovascular pathophysiological manifestations of congestive heart failure: elevated left ventricular end diastolic pressure and reduced cardiac output, respectively.")

determining whether the result of the statistical analysis exceeds a predetermined threshold value; (see at least Bardy [0059] "A predicted measure value can be calculated and compared to the appropriate indicator threshold 129 for determining whether the particular measure has either exceeded an acceptable threshold rate of change or the absolute threshold limit.")

Bardy does not disclose the following limitations, however Pence, as shown, does:

• if it is determined that the result of the statistical analysis does not exceed the predetermined threshold value, then repeating the steps of accessing, performing and determining while the clinical trial is ongoing. (see at least Pence Fig. 2 Items:50, 52 & "Detail 'A'")

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine accessing a trial database containing trial data of subjects in a clinical trial; performing a statistical analysis on the accessed trial database and determining whether the result of the statistical analysis exceeds a predetermined threshold value, as taught in Bardy, with the determining whether the result of the statistical analysis exceeds a predetermined threshold value, as taught in Pence, with the motivation of providing a more efficient and systematic approach to detecting trends in continuously collected data indicative of the progression or regression from the user defined threshold value, using an automated method and system. (see at least Bardy [0008])

Claim 2

The combination of Bardy/Pence discloses all the limitations of Claim 1. Bardy further discloses the following limitations:

 reading a user defined criteria that defines the level of cleanliness of the trial data for statistical analysis; (see at least Bardy [0048] "In addition, the feedback module 128 determines whether any changes to interventive measures are appropriate based on threshold stickiness ("hysteresis") 133, as further described below with reference to FIG. 16. The threshold stickiness 133 can prevent fickleness in diagnostic routines resulting from transient, non-trending and non-significant fluctuations in the various collected and derived measures in favor of more certainty in diagnosis.")

Page 4

• retrieving only those trial data that meet the user defined criteria from the trial database (see at least Bardy [0011] "A plurality of monitoring sets is retrieved from a database. Each monitoring set includes recorded measures that each relates to patient information and include either medical device measures or derived measures calculable therefrom. The medical device measures are recorded on a substantially continuous basis. A set of indicator thresholds is defined.")

Claim 3

The combination of Bardy/Pence discloses all the limitations of Claim 1. Pence further discloses the following limitation:

wherein if it is determined that the result of the statistical analysis does not exceed the
predetermined threshold value, then waiting for a predetermined time period prior to the
repeating step (see at least Pence Fig. 2 Items:50,51,52 & "Detail 'A'")

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine all the limitations Claim 1, as taught in Bardy/Pence wherein if it is determined that the result of the statistical analysis does not exceed the predetermined threshold value, then waiting for a predetermined time period prior to the repeating step, as taught in Pence, with the motivation of providing a more efficient approach for continuously monitoring clinical trial data, for accurately determining when the user defined threshold value is exceeded. (see at least Pence Column:2 Lines:23-27)

Art Unit: 4143

Claim 4

The combination of Bardy/Pence discloses all the limitations of Claim 1. Bardy further discloses the following limitations:

• producing a grouped database from the clinical database and the blinding database for

statistical analysis, the grouped database grouping the study data according to the study

group. (see at least Bardy Fig.5 Items:26,27,125,129-133)

accessing a blinding database containing subject identifiers and associated study group

identifiers, each study group identifier identifying to which study group an associated subject

belongs; (see at least Bardy [0009] "Select stored and derived measures are analyzed and

changes in patient condition are logged. The logged changes are compared to quantified

indicator thresholds to detect findings of respiratory distress or reduced exercise capacity

indicative of the two principal cardiovascular pathophysiological manifestations of congestive

heart failure: elevated left ventricular end diastolic pressure and reduced cardiac output,

respectively.")

Claim 5

The combination of Bardy/Pence discloses all the limitations of Claim 4. Pence further discloses

the following limitation:

wherein the grouped database is stored in a memory device that is inaccessible by any user

(see at least Pence Column:5 Lines:47-51 "the unit history record mentioned above, a single

record is stored in a database on disk 11 of FIG. 1 for each disk drive or device. There is

keyed access to this record, based on the unique device serial number.")

It would have been obvious to one of ordinary skill in the art at the time of the invention to

combine all the limitations Claim 4, as taught in Bardy/Pence, with the grouped database is stored in

a memory device that is inaccessible by any user, as taught in Pence, with the motivation of providing

a more efficient approach for continuously monitoring clinical trial data, for accurately determining

when the user defined threshold value is exceeded. (see at least Pence Column: 2 Lines: 23-27)

In addition, it would have been obvious to one of ordinary skill in the art at the time of the invention to further restrict access to the database for all users, in order to ensure that the integrity of the database is maintained.

Claim 6

The combination of Bardy/Pence discloses all the limitations of Claim 1. Bardy further discloses the following limitation:

 wherein the step of performing a statistical analysis is executed without locking the trial database (see at least Bardy [0048] "the analysis module 131 analyzes the results from the comparison module 130, which are stored as a combined measures set 95 (not shown), to a set of indicator thresholds 129,")

Claim 7

The combination of Bardy/Pence discloses all the limitations of Claim 1. Bardy further discloses the following limitation:

- reading a predefined criteria that defines the level of cleanliness of trial data required for analysis; (see at least Bardy [0048] "In addition, the feedback module 128 determines whether any changes to interventive measures are appropriate based on threshold stickiness ("hysteresis") 133, as further described below with reference to FIG. 16. The threshold stickiness 133 can prevent fickleness in diagnostic routines resulting from transient, non-trending and non-significant fluctuations in the various collected and derived measures in favor of more certainty in diagnosis.")
- retrieving only those trial data that meet the predefined criteria from the trial database; (see at least Bardy [0011] "A plurality of monitoring sets is retrieved from a database. Each monitoring set includes recorded measures that each relates to patient information and include either medical device measures or derived measures calculable therefrom. The medical device measures are recorded on a substantially continuous basis. A set of indicator thresholds is defined.")

accessing a blinding database containing subject identifiers and an associated study group identifier for each subject, each study group identifier identifying to which study group each subject belongs; (see at least Bardy [0037] "The device and derived measures sets 24a, 24b (shown in FIG. 1), along with quality of life and symptom measures sets 25a, 25b, as further described below with reference to FIG. 3, are continuously and periodically received by the server system 16 as part of the on-going patient care monitoring and analysis function. These regularly collected data sets are collectively categorized as the monitoring sets 27")

 producing a grouped database from the retrieved trial data and the blinding database for statistical analysis, the grouped database grouping the trial data according to the study group. (see at least Bardy Fig.5 Items:26,27,125,129-133)

Claim 8

The combination of Bardy/Pence discloses all the limitations of Claim 7. Pence further discloses the following limitation:

wherein the grouped database is stored in a memory device that is inaccessible by any user
to preserve the blindness of the clinical trial. (see at least Pence Column:5 Lines:47-51 "the
unit history record mentioned above, a single record is stored in a database on disk 11 of
FIG. 1 for each disk drive or device. There is keyed access to this record, based on the
unique device serial number.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine all the limitations Claim 7, as taught in Bardy/Pence wherein the grouped database is stored in a memory device that is inaccessible by any user, as taught in Pence, with the motivation of providing a more efficient approach for continuously monitoring clinical trial data, for accurately determining when the user defined threshold value is exceeded. (see at least Pence Column:2 Lines:23-27)

In addition, it would have been obvious to one of ordinary skill in the art at the time of the invention to further restrict access to the database for all users, in order to ensure the integrity of the database is maintained.

Art Unit: 4143

Claim 9

The combination of Bardy/Pence discloses all the limitations of Claim 1. Bardy further discloses the following limitation:

alerting a user if it is determined that the result of the statistical analysis exceeds the
predetermined threshold value. (see at least Bardy Fig. 5 Item:127 and [0041] "the patient
information stored in the database 17 is analyzed and compared to pre-determined cutoff
levels, which, when exceeded, can provide etiological indications of congestive heart failure
symptoms.")

Claim 10

The combination of Bardy/Pence discloses all the limitations of Claim 9. Pence further discloses the following limitation:

wherein the predetermined threshold value includes a predetermined statistical significance
value (see at least Pence Column:7 Lines:28-31 "Step 95 compares the Sigma calculation to
statistically significant thresholds. The thresholds are previously determined as being
significant by the user.")

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine all the limitations Claim 9, as taught in Bardy/Pence, wherein the predetermined threshold value includes a predetermined statistical significance value, as taught in Pence, with the motivation of providing a more efficient approach for continuously monitoring clinical trial data, for accurately determining when the user defined threshold value is exceeded. (see at least Pence Column:2 Lines:23-27)

Claim 11

The combination of Bardy/Pence discloses all the limitations of Claim 10. Pence further discloses the following limitation:

 retrieving a user defined statistical model; and running the retrieved user defined statistical model on the trial database. (see at least Pence Column:7 Lines:28-31 "Step 95 compares

Art Unit: 4143

the Sigma calculation to statistically significant thresholds. The thresholds are previously determined as being significant by the user.")

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine all the limitations Claim 10, as taught in Bardy/Pence *retrieving a user defined statistical model; and running the retrieved user defined statistical model on the trial database.*, as taught in Pence, with the motivation of providing a more efficient approach for continuously monitoring clinical trial data, for accurately determining when the user defined threshold value is exceeded. (see at least Pence Column:2 Lines:23-27)

Claim 12

Bardy as shown, discloses the following limitations:

- accessing a trial database containing blinded trial data of subjects in an ongoing blinded clinical trial; performing a statistical analysis on the produced grouped database; (see at least Bardy [0009] "Select stored and derived measures are analyzed and changes in patient condition are logged. The logged changes are compared to quantified indicator thresholds to detect findings of respiratory distress or reduced exercise capacity indicative of the two principal cardiovascular pathophysiological manifestations of congestive heart failure: elevated left ventricular end diastolic pressure and reduced cardiac output, respectively.")
- accessing a blinding database containing subject identifiers and associated study group identifiers, each study group identifier identifying to which study group an associated subject belongs; (see at least Bardy [0037] "The device and derived measures sets 24a, 24b (shown in FIG. 1), along with quality of life and symptom measures sets 25a, 25b, as further described below with reference to FIG. 3, are continuously and periodically received by the server system 16 as part of the on-going patient care monitoring and analysis function. These regularly collected data sets are collectively categorized as the monitoring sets 27")
- producing a grouped database from the trial database and the blinding database, the grouped database grouping the trial data according to the study group; (see at least Bardy Fig.5 Items:26,27,125,129-133)

determining whether the result of the statistical analysis exceeds a predetermined threshold value; (see at least Bardy [0059] "A predicted measure value can be calculated and compared to the appropriate indicator threshold 129 for determining whether the particular measure has either exceeded an acceptable threshold rate of change or the absolute threshold limit.")

Bardy does not disclose the following limitation, however Pence, as shown does:

 if it is determined that the result of the statistical analysis does not exceed the predetermined threshold value, then repeating the above steps (see at least Pence Fig. 2 Items:50, 52 & "Detail 'A'")

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine limitations above taught in Bardy, with repeating the above steps, if it is determined that the result of the statistical analysis does not exceed the predetermined threshold value, as taught in Pence, with the motivation of providing a more efficient and systematic approach to detecting trends in continuously collected data indicative of the progression or regression from the user defined threshold value, using an automated method and system. (see at least Bardy [0008])

Claim 13

The combination of Bardy/Pence discloses all the limitations of Claim 12. Bardy further discloses the following limitations:

- reading a user defined criteria that defines the level of cleanliness of trial data for statistical analysis; and(see at least Bardy [0048] "In addition, the feedback module 128 determines whether any changes to interventive measures are appropriate based on threshold stickiness ("hysteresis") 133, as further described below with reference to FIG. 16. The threshold stickiness 133 can prevent fickleness in diagnostic routines resulting from transient, non-trending and non-significant fluctuations in the various collected and derived measures in favor of more certainty in diagnosis.")
- retrieving only those trial data that meet the user defined criteria from the trial database for statistical analysis. (see at least Bardy [0011] "A plurality of monitoring sets is retrieved from

Art Unit: 4143

a database. Each monitoring set includes recorded measures that each relates to patient

information and include either medical device measures or derived measures calculable

therefrom. The medical device measures are recorded on a substantially continuous basis.

A set of indicator thresholds is defined.")

Claim 14

The combination of Bardy/Pence discloses all the limitations of Claim 12. Pence further discloses

the following limitations:

wherein the produced grouped database is stored in a memory device that is inaccessible by

any user (see at least Pence Column:5 Lines:47-51 "the unit history record mentioned

above, a single record is stored in a database on disk 11 of FIG. 1 for each disk drive or

device. There is keyed access to this record, based on the unique device serial number.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to

combine all the limitations Claim 12, as taught in Bardy/Pence wherein the produced grouped

database is stored in a memory device that is inaccessible by any user, as taught in Pence, with the

motivation of providing a more efficient approach for continuously monitoring clinical trial data, for

accurately determining when the user defined threshold value is exceeded. (see at least Pence

Column:2 Lines:23-27)

In addition, it would have been obvious to one of ordinary skill in the art at the time of the

invention to further restrict access to the database for all users, in order to ensure the integrity of the

database is maintained.

Claim 15

The combination of Bardy/Pence discloses all the limitations of Claim 12. Bardy further discloses

the following limitations:

wherein the step of performing a statistical analysis is executed without locking the trial

database. (see at least Bardy [0048] "the analysis module 131 analyzes the results from the

comparison module 130, which are stored as a combined measures set 95 (not shown), to a

set of indicator thresholds 129,")

Claim 16

Art Unit: 4143

The combination of Bardy/Pence discloses all the limitations of Claim 12. Bardy further discloses the following limitations:

alerting a user if it is determined that the result of the statistical analysis exceeds the
predetermined threshold value. (see at least Bardy Fig. 5 Item:127 and [0041] "the patient
information stored in the database 17 is analyzed and compared to pre-determined cutoff
levels, which, when exceeded, can provide etiological indications of congestive heart failure
symptoms.")

Claim 17

The combination of Bardy/Pence discloses all the limitations of Claim 16. Pence further discloses the following limitations:

wherein the predetermined threshold value includes a predetermined statistical significance value. (see at least Pence Column:7 Lines28-31 Step 95 compares the Sigma calculation to statistically significant thresholds. The thresholds are previously determined as being significant by the user.")

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine all the limitations Claim 16, as taught in Bardy/Pence, wherein the predetermined threshold value includes a predetermined statistical significance value, as taught in Pence, with the motivation of providing a more efficient approach for continuously monitoring clinical trial data, for accurately determining when the user defined threshold value is exceeded. (see at least Pence Column:2 Lines:23-27)

Claim 18

Bardy as shown, discloses the following limitations:

- a storage device operable to store a trial database containing trial data of subjects in an ongoing clinical trial; (see at least Bardy [0035] The database 17 stores patient care records 23 for each individual patient to whom remote patient care is being provided . . . The patient care records 23 consist primarily of two sets of data: device and derived measures")
- a processor coupled to the storage device; (see at least Bardy Fig. 1 Items14,16-18)

an analysis program executable by the processor (see at least Bardy Fig. 5 Items16,131)

operable to perform a statistical analysis on the trial database; (see at least Bardy [0009]
 "Select stored and derived measures are analyzed and changes in patient condition are
 logged. The logged changes are compared to quantified indicator thresholds to detect
 findings of respiratory distress or reduced exercise capacity indicative of the two principal
 cardiovascular pathophysiological manifestations of congestive heart failure: elevated left

ventricular end diastolic pressure and reduced cardiac output, respectively.")

determine whether the output result of the statistical analysis exceeds a predetermined
threshold value; (see at least Bardy "A predicted measure value can be calculated and
compared to the appropriate indicator threshold 129 for determining whether the particular
measure has either exceeded an acceptable threshold rate of change or the absolute
threshold limit.")

Bardy does not disclose the following limitation, however Pence, as shown does:

• repeat the statistical analysis while the clinical trial is ongoing if it is determined that the result of the statistical analysis does not exceed the predetermined threshold value. (see at least Pence Fig. 2 Items:50, 52 & "Detail 'A'")

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine a storage device operable to store a trial database containing trial data of subjects in an ongoing clinical trial, a processor coupled to the storage device, an analysis program executable by the processor, operable to perform a statistical analysis on the trial database, and determine whether the output result of the statistical analysis exceeds a predetermined threshold value as taught in Bardy, with the repeat the statistical analysis while the clinical trial is ongoing if it is determined that the result of the statistical analysis does not exceed the predetermined threshold value, as taught in Pence, with the motivation of providing a more efficient and systematic approach to detecting trends in continuously collected data indicative of the progression or regression from the user defined threshold value, using an automated method and system. (see at least Bardy [0008])

Art Unit: 4143

Claim 19

The combination of Bardy/Pence discloses all the limitations of Claim 18. Bardy further discloses

the following limitations:

· read a user defined criteria that defines the level of cleanliness of trial data for statistical

analysis; (see at least Bardy [0048] "the analysis module 131 analyzes the results from the

comparison module 130, which are stored as a combined measures set 95 (not shown), to a

set of indicator thresholds 129,")

retrieve only those trial data that meet the user defined criteria from the trial database (see at

least Bardy [0011] "A plurality of monitoring sets is retrieved from a database. Each

monitoring set includes recorded measures that each relates to patient information and

include either medical device measures or derived measures calculable therefrom. The

medical device measures are recorded on a substantially continuous basis. A set of indicator

thresholds is defined.")

Claim 20

The combination of Bardy/Pence discloses all the limitations of Claim 18. Pence further discloses

the following limitations:

wherein if the analysis program determines that the result of the statistical analysis does not

exceed the predetermined threshold value, then the analysis program waits for a

predetermined time period prior to repeating the statistical analysis. (see at least Pence Fig. 2

Items:50,51,52 & "Detail 'A'")

It would have been obvious to one of ordinary skill in the art at the time of the invention to

combine all the limitations Claim 18, as taught in Bardy/Pence wherein if the analysis program

determines that the result of the statistical analysis does not exceed the predetermined threshold

value, then the analysis program waits for a predetermined time period prior to repeating the

statistical analysis, as taught in Pence, with the motivation of providing a more efficient approach for

continuously monitoring clinical trial data, for accurately determining when the user defined threshold

value is exceeded. (see at least Pence Column:2 Lines:23-27)

Art Unit: 4143

Claim 21

The combination of Bardy/Pence discloses all the limitations of Claim 18. Bardy further discloses

the following limitation:

• produce a grouped database from the trial database and the blinding database for statistical

analysis, the grouped database grouping the trial data according to the study group. (see at

least Bardy Fig.5 Items:26,27,125,129-133)

access a blinding database containing subject identifiers and associated study group

identifiers, each study group identifier identifying to which study group an associated subject

belongs; (see at least Bardy [0037] "The device and derived measures sets 24a, 24b (shown

in FIG. 1), along with quality of life and symptom measures sets 25a, 25b, as further

described below with reference to FIG. 3, are continuously and periodically received by the

server system 16 as part of the on-going patient care monitoring and analysis function.

These regularly collected data sets are collectively categorized as the monitoring sets 27")

Claim 22

The combination of Bardy/Pence discloses all the limitations of Claim 21. Pence further discloses

the following limitation:

a memory device coupled to the processor (see at least Pence Fig. 1 Items:11,15 and related

text).

being inaccessible to any user, wherein the grouped database is stored only in the memory

device. (see at least Pence Column:5 Lines:47-51 "the unit history record mentioned above, a

single record is stored in a database on disk 11 of FIG. 1 for each disk drive or device. There

is keyed access to this record, based on the unique device serial number.)

It would have been obvious to one of ordinary skill in the art at the time of the invention to

combine all the limitations Claim 21, as taught in Bardy/Pence, with a memory device coupled to the

processor and being inaccessible to any user, wherein the grouped database is stored only in the

memory device, as taught in Pence, with the motivation of providing a more efficient approach for

continuously monitoring clinical trial data, for accurately determining when the user defined threshold value is exceeded. (see at least Pence Column:2 Lines:23-27)

In addition, it would have been obvious to one of ordinary skill in the art at the time of the invention to further restrict access to the database for all users, in order to ensure the integrity of the database is maintained.

Claim 23

The combination of Bardy/Pence discloses all the limitations of Claim 18. Bardy further discloses the following limitation:

 wherein the analysis program performs the statistical analysis without locking the trial database (see at least Bardy [0048] "the analysis module 131 analyzes the results from the comparison module 130, which are stored as a combined measures set 95 (not shown), to a set of indicator thresholds 129,")

Claim 24

The combination of Bardy/Pence discloses all the limitations of Claim 18. Bardy further discloses the following limitation:

• wherein the analysis program is further operable to alert a user if it determines that the result of the statistical analysis exceeds the predetermined threshold value (see at least Bardy "A predicted measure value can be calculated and compared to the appropriate indicator threshold 129 for determining whether the particular measure has either exceeded an acceptable threshold rate of change or the absolute threshold limit.")

Art Unit: 4143

Conclusion

Any inquiry of a general nature or relating to the status of this application or concerning this

communication or earlier communications from the Examiner should be directed to Rajiv J. Raj whose

telephone number is 571-270-3930. The Examiner can normally be reached on Monday-Friday, 7:30am-

5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor,

James A. Reagan can be reached at 571.272.6710.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

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Date: 02/14/08

/Rajiv J Raj/ Patent Examiner Art Unit 4143

/James A. Reagan/Supervisory Patent Examiner, Art Unit 4143